

Amendments to the Claims:

This listing of Claims will replace all prior versions, and listings, of claims in the application:

1-47. (Canceled)

48. (Currently Amended) A cellular radio communications system comprising:

~~two or more cells and radio communications equipment according to claim 26, the system comprising~~

a first radio communications equipment, located within a first cell, for communicating traffic with different characteristics, the traffic being divided into two or more categories including conventional communications and opportunistic communications which transfer with different characteristics, wherein conventional communications comprise communications in which transmission power for various channels is adjusted to achieve at least minimum quality requirements and wherein opportunistic communications use scheduling and rate control to transfer traffic, the first radio communications equipment further comprising processing circuitry for allocating traffic transmissions that use conventional communications to physically wholly or partially separated channels to the traffic transmissions that use opportunistic communications;

a second radio communications equipment, located within a second cell, for communicating traffic with different characteristics, the traffic being divided into two or more categories including conventional communications and opportunistic communications which transfer with different characteristics, wherein conventional communications comprise communications in which transmission power for various channels is adjusted to achieve at least minimum quality requirements and wherein opportunistic communications use scheduling and rate control to transfer traffic, the second radio communications equipment further comprising processing circuitry for allocating traffic transmissions that use conventional communications to physically

wholly or partially separated channels to the traffic transmissions that use opportunistic communications; and

processing circuitry for allocating traffic of different characteristics of different cells by which allocation interference between differently characterized communications of neighboring cells is minimized, wherein the processing circuitry allocates the traffic of different characteristics of the different cells by minimizing a number of time slots, frequency slots or time-frequency slots which overlap and contain different types of communications that are transmitted from the first and second radio communications equipment in the different cells.

49. (Canceled)

50. (Previously Presented) The radio communications system according to claim 48 comprising the processing circuitry maximizing signal to interference ratio or carrier to interference ratio of time slots, frequency slots or time-frequency slots, if any, of communications with different characteristics in the different cells.

51. (Canceled)

52. (New) A controller that interfaces with a first radio communications equipment and a second radio communications equipment wherein:

the first radio communications equipment, located within a first cell, for communicating traffic with different characteristics, the traffic being divided into two or more categories including conventional communications and opportunistic communications which transfer with different characteristics, wherein conventional communications comprise communications in which transmission power for various channels is adjusted to achieve at least minimum quality requirements and wherein opportunistic communications use scheduling and rate control to transfer traffic, the first radio communications equipment further comprising processing circuitry for allocating traffic transmissions that use conventional communications to physically wholly or

partially separated channels to the traffic transmissions that use opportunistic communications; and

the second radio communications equipment, located within a second cell, for communicating traffic with different characteristics, the traffic being divided into two or more categories including conventional communications and opportunistic communications which transfer with different characteristics, wherein conventional communications comprise communications in which transmission power for various channels is adjusted to achieve at least minimum quality requirements and wherein opportunistic communications use scheduling and rate control to transfer traffic, the second radio communications equipment further comprising processing circuitry for allocating traffic transmissions that use conventional communications to physically wholly or partially separated channels to the traffic transmissions that use opportunistic communications, the controller comprising:

processing circuitry for allocating traffic of different characteristics of different cells by which allocation interference between differently characterized communications of neighboring cells is minimized, wherein the processing circuitry allocates the traffic of different characteristics of the different cells by minimizing a number of time slots, frequency slots or time-frequency slots which overlap and contain different types of communications that are transmitted from the first and second radio communications equipment in the different cells.